

04/05/02  
03/19

Page 1

#2



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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/083,815

DATE: 03/14/2002  
TIME: 13:55:12

Input Set : A:\435c2.app  
Output Set: N:\CRF3\03142002\J083815.raw

5 <110> APPLICANT: Anderson, Christen M.  
6 Clevenger, William  
9 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR REGULATING  
10 ENDOGENOUS INHIBITOR OF ATP SYNTHASE, INCLUDING  
11 TREATMENT FOR DIABETES  
14 <130> FILE REFERENCE: 660088.435C2  
C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/083,815  
18 <141> CURRENT FILING DATE: 2002-02-27  
20 <160> NUMBER OF SEQ ID NOS: 72  
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
24 <210> SEQ ID NO: 1  
25 <211> LENGTH: 6  
26 <212> TYPE: PRT  
27 <213> ORGANISM: Artificial Sequence  
29 <220> FEATURE:  
30 <223> OTHER INFORMATION: Epitope tag  
32 <400> SEQUENCE: 1  
33 His His His His His His  
34 1 5  
36 <210> SEQ ID NO: 2  
37 <211> LENGTH: 7  
38 <212> TYPE: PRT  
39 <213> ORGANISM: Artificial Sequence  
41 <220> FEATURE:  
42 <223> OTHER INFORMATION: Epitope tag  
44 <400> SEQUENCE: 2  
45 Asp Tyr Asp Asp Asp Asp Lys  
46 1 5  
48 <210> SEQ ID NO: 3  
49 <211> LENGTH: 6  
50 <212> TYPE: PRT  
51 <213> ORGANISM: Artificial Sequence  
53 <220> FEATURE:  
54 <223> OTHER INFORMATION: Epitope tag  
56 <400> SEQUENCE: 3  
57 Asp Thr Tyr Arg Tyr Ile  
58 1 5  
60 <210> SEQ ID NO: 4  
61 <211> LENGTH: 6  
62 <212> TYPE: PRT  
63 <213> ORGANISM: Artificial Sequence  
65 <220> FEATURE:  
66 <223> OTHER INFORMATION: Epitope tag

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68 <400> SEQUENCE: 4  
69 Thr Asp Phe Tyr Leu Lys  
70 1 5  
72 <210> SEQ ID NO: 5  
73 <211> LENGTH: 10  
74 <212> TYPE: PRT  
75 <213> ORGANISM: Artificial Sequence  
77 <220> FEATURE:  
78 <223> OTHER INFORMATION: Epitope tag  
80 <400> SEQUENCE: 5  
81 Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu  
82 1 5 10  
84 <210> SEQ ID NO: 6  
85 <211> LENGTH: 9  
86 <212> TYPE: PRT  
87 <213> ORGANISM: Artificial Sequence  
89 <220> FEATURE:  
90 <223> OTHER INFORMATION: Epitope tag  
92 <400> SEQUENCE: 6  
93 Glu Glu Glu Glu Tyr Met Pro Met Glu  
94 1 5  
96 <210> SEQ ID NO: 7  
97 <211> LENGTH: 9  
98 <212> TYPE: PRT  
99 <213> ORGANISM: Artificial Sequence  
101 <220> FEATURE:  
102 <223> OTHER INFORMATION: Epitope tag  
104 <400> SEQUENCE: 7  
105 Tyr Pro Tyr Asp Val Pro Asp Tyr Ala  
106 1 5  
108 <210> SEQ ID NO: 8  
109 <211> LENGTH: 5  
110 <212> TYPE: PRT  
111 <213> ORGANISM: Artificial Sequence  
113 <220> FEATURE:  
114 <223> OTHER INFORMATION: Epitope tag  
116 <400> SEQUENCE: 8  
117 Arg Tyr Ile Arg Ser  
118 1 5  
120 <210> SEQ ID NO: 9  
121 <211> LENGTH: 6  
122 <212> TYPE: PRT  
123 <213> ORGANISM: Artificial Sequence  
125 <220> FEATURE:  
126 <223> OTHER INFORMATION: Epitope tag  
128 <400> SEQUENCE: 9  
129 Pro Pro Glu Pro Glu Thr  
130 1 5  
132 <210> SEQ ID NO: 10

RAW SEQUENCE LISTING  
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133 <211> LENGTH: 8
134 <212> TYPE: PRT
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: cellular transport sequence
140 <400> SEQUENCE: 10
141 Arg Lys Lys Arg Arg Gln Arg Arg
142 1 5
144 <210> SEQ ID NO: 11
145 <211> LENGTH: 21
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: cellular transport sequence
152 <400> SEQUENCE: 11
153 aggaagaagc ggagacagag a 21
155 <210> SEQ ID NO: 12
156 <211> LENGTH: 324
157 <212> TYPE: DNA
158 <213> ORGANISM: Rattus norvegicus
160 <400> SEQUENCE: 12
161 atggcaggctt cggcgttggc gttcgggct cggctcggtg tctgggtat gagggtcctg 60
162 caaacccgag ctgcggctc ggactcgctg gagagcatgg attcgggcgc tggctccatc 120
163 cgagaagctg gtggggcctt cggaaacga gagaaggctg aagaggatcg gtacttccga 180
164 gagaagacta gagagcagct ggctgcctt aagaagcacc atgaagatga gattgaccac 240
165 cattcgaagg agatacagcg tctgcaaaaa cagatcgaac ggcataagaa gaagattaaa 300
166 tacctaaaga atatgtgagca ttga 324
168 <210> SEQ ID NO: 13
169 <211> LENGTH: 107
170 <212> TYPE: PRT
171 <213> ORGANISM: Rattus norvegicus
173 <400> SEQUENCE: 13
174 Met Ala Gly Ser Ala Leu Ala Val Arg Ala Arg Leu Gly Val Trp Gly .
175 1 5 10 15
176 Met Arg Val Leu Gln Thr Arg Gly Phe Gly Ser Asp Ser Ser Glu Ser
177 20 25 30
178 Met Asp Ser Gly Ala Gly Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly
179 35 40 45
180 Lys Arg Glu Lys Ala Glu Glu Asp Arg Tyr Phe Arg Glu Lys Thr Arg
181 50 55 60
182 Glu Gln Leu Ala Ala Leu Lys Lys His His Glu Asp Glu Ile Asp His
183 65 70 75 80
184 His Ser Lys Glu Ile Glu Arg Leu Gln Lys Gln Ile Glu Arg His Lys
185 85 90 95
186 Lys Lys Ile Lys Tyr Leu Lys Asn Ser Glu His
187 100 105
189 <210> SEQ ID NO: 14
190 <211> LENGTH: 75
191 <212> TYPE: DNA

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192 <213> ORGANISM: Rattus norvegicus.
194 <400> SEQUENCE: 14
195 atggcaggct cggcgttggc gttcgggct cggctcggtg tctgggtat gagggtcctg      60
196 caaaaccgcag gcttc                                75
198 <210> SEQ ID NO: 15
199 <211> LENGTH: 509
200 <212> TYPE: DNA
201 <213> ORGANISM: Mus musculus
203 <400> SEQUENCE: 15
204 cgcaacgcga gctgagcaac gccgaagaca atggcaggct cggcgttggc agttcgggct      60
205 cggttcggtg tctgggtat gaaggtccctg caaacccgag gttcgcttc ggactcgctg      120
206 gatagcatgg atacgggcgc tggctccatc cgagaagctg gtggagcctt cgaaaaacga      180
207 gaaaaggctg aagaggatcg gtacttccga gagaagacta aagaacagct ggctgccctg      240
208 aggaaacacc atgaagatga gattgaccac cattcgaagg agatagagcg tctcagaag      300
209 caaattgatc gccataagaa gaagatccaa caactaaaga ataatcattt aatgcgcgca      360
210 gtcggccct cacagagtgg cccgtatcac tccccacgtc tgttagacaca tggcttgaa      420
211 tgattactat ttggctctgt tgctactaac agataataaa cgatcaccag gaaactttta      480
212 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa                                         509
214 <210> SEQ ID NO: 16
215 <211> LENGTH: 106
216 <212> TYPE: PRT
217 <213> ORGANISM: Mus musculus
219 <400> SEQUENCE: 16
220 Met Ala Gly Ser Ala Leu Ala Val Arg Ala Arg Phe Gly Val Trp Gly
221   1           5           10          15
222 Met Lys Val Leu Gln Thr Arg Gly Phe Val Ser Asp Ser Ser Asp Ser
223   20          25          30
224 Met Asp Thr Gly Ala Gly Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly
225   35          40          45
226 Lys Arg Glu Lys Ala Glu Glu Asp Arg Tyr Phe Arg Glu Lys Thr Lys
227   50          55          60
228 Glu Gln Leu Ala Ala Leu Arg Lys His His Glu Asp Glu Ile Asp His
229   65          70          75          80
230 His Ser Lys Glu Ile Glu Arg Leu Gln Lys Gln Ile Asp Arg His Lys
231   85          90          95
232 Lys Lys Ile Gln Gln Leu Lys Asn Asn His
233   100         105
235 <210> SEQ ID NO: 17
236 <211> LENGTH: 23
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: PCR primer
243 <400> SEQUENCE: 17
244 cacaaggata tcggaaacct cta                                         23
246 <210> SEQ ID NO: 18
247 <211> LENGTH: 25
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial Sequence
  
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251 <220> FEATURE:
252 <223> OTHER INFORMATION: PCR primer
254 <400> SEQUENCE: 18
255 aagtgggctt ttgctcatgt gtcat                                25
257 <210> SEQ ID NO: 19
258 <211> LENGTH: 47
259 <212> TYPE: DNA
260 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: PCR primer
265 <400> SEQUENCE: 19
266 tgagctcaga tatggcagga agaaggcgag acagagagga atggcag      47
268 <210> SEQ ID NO: 20
269 <211> LENGTH: 34
270 <212> TYPE: DNA
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: PCR primer
276 <400> SEQUENCE: 20
277 atataagctt tcaatgctca ctattcttta ggta                            34
279 <210> SEQ ID NO: 21
280 <211> LENGTH: 33
281 <212> TYPE: DNA
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: Tat-derived cellular targeting sequence
287 <400> SEQUENCE: 21
288 agatatggca ggaagaagcg gagacagaga gga                           33
290 <210> SEQ ID NO: 22
291 <211> LENGTH: 11
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Tat-derived cellular targeting sequence
298 <400> SEQUENCE: 22
299 Arg Tyr Gly Arg Lys Lys Arg Arg Gln Arg Gly
300 1           5           10
302 <210> SEQ ID NO: 23
303 <211> LENGTH: 48
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: PCR primer
310 <400> SEQUENCE: 23
311 tgagctcagg atatggcagg aagaaggcgga gacagagagg aggctcg      48
313 <210> SEQ ID NO: 24
314 <211> LENGTH: 34
315 <212> TYPE: DNA
316 <213> ORGANISM: Artificial Sequence

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**VERIFICATION SUMMARY**

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TIME: 13:55:13

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L:17 M:270 C: Current Application Number differs, Wrong Format